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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

Vitali LISSIANSKI et al.

Serial No. 10/714,939



Atty. Ref.: 839-1458

Group: 3749

Filed: November 18, 2003

Examiner: Not Yet Assigned

For: MERCURY REDUCTION SYSTEM AND METHOD IN  
COMBUSTION FLUE GAS USING STAGING

\* \* \* \* \*

June 16, 2004

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

The following are submitted in the above-identified application in compliance with 37 C.F.R. §§ 1.97 and 1.98:

**INFORMATION DISCLOSURE STATEMENT**

1. **PTO-1449 Pursuant to 37 CFR 1.97(b)**  
[within 3 months of filing or prior to 1st Office Action] *N/C*

2. **Statement Pursuant to 37 CFR 1.97(c)**  
[before Final Office Action or Allowance] *N/C*

3. **Fee Payment Pursuant to 37 CFR 1.97(c)**  
[before Final Office Action or Allowance] *\$180.00*

4. **Statement & Fee Payment Pursuant to 37 CFR 1.97(d)**  
[before Issue Fee payment] *\$180.00*

5. A list of documents on Form PTO-1449 together with copies of each identified document and a translation or a concise explanation of each non-English language document is enclosed herewith.

This paper is submitted in accordance with:

6. 37 CFR 1.97(b): [within 3 months of filing or prior to 1st Office Action]

7. 37 CFR 1.97(c): [before Final Office Action or Allowance, whichever is earlier]; and

- a) The Statement required by 37 CFR §§1.97(c)(1) and (e) made in item 9 below; or
- b) The fee specified in 37 CFR §1.17(p) for submission of this Information Disclosure Statement is authorized in item 10 below.

8. 37 CFR §1.97(d): [before issue fee payment]; and

- a) This is a request for consideration of the subject Information Disclosure Statement. The fee required by 37 CFR §1.17(p) is authorized in item 10 below; and
- b) The Statement required by 37 CFR §§1.97(d)(1) and (e) is stated in item 9 below.

9. Statement under 37 CFR 1.97(e)

- a) Each item of information contained in this Information Disclosure Statement was cited for the first time in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- b) No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement, after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

10. Please charge all applicable fees associated with the submission of this Information Disclosure Statement and any other fees applicable to this application to Deposit Account No. 14-1140. An original and one (1) copy of this document are enclosed.

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

By:



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INFORMATION DISCLOSURE CITATION		ATTY. DOCKET NO.	SERIAL NO.
		839-1458 APPLICANT	10/714,939
(Use several sheets if necessary)		Vitali LISSIANSKI et al. FILING DATE	GROUP
		November 18, 2003	3749

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,604,474	08/12/2003	Zamansky et al.			
	4,196,173	04/01/1980	deJong et al.			
	4,233,274	11/11/1980	Allgulin			
	4,273,747	06/16/1981	Rasmussen			
	4,814,152	03/21/1989	Yan			
	4,843,102	06/27/1989	Horton			
	5,141,724	08/25/1992	Audeh et al.			
	5,409,522	04/25/1995	Durham et al.			
	5,695,726	12/09/1997	Lerner			
	5,787,823	08/04/1998	Knowles			
	6,027,551	02/22/2000	Hwang et al.			
	6,451,094	09/17/2002	Chang et al.			
	6,521,021	02/18/2003	Pennline et al.			
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	6,595,147	07/22/2003	Teller et al.			
	6,719,828	04/13/2004	Lovell et al.			
	US 2002/0095866	07/25/2002	Hassett			
	US 2003/0005634	01/09/2003	Calderon et al.			
	US 2003/0185718	10/02/2003	Sellakumar			
	US 2004/0011057	01/22/2004	Huber			

## FOREIGN PATENT DOCUMENTS

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

"Reburn Systems", GE Power Systems, Air Quality Systems & Services, pp. 1-3, GEA-13207 (2001).
"FlamemastEER™ Low NO <sub>x</sub> Burners", GEA-13132, p. 1, printed December 2003.
"NO <sub>x</sub> Control for Gas Turbines", GE Power Systems, pp. 1-2, printed December 17, 2003.
"NO <sub>x</sub> Control for Boilers", GE Power Systems, pp. 1-2, printed December 17, 2003.
"Coalogic™", GE Power Systems, pp. 1-2, printed December 17, 2003.
"Coal Balancing & Blending", GE Power Systems, pp. 1-2, printed December 17, 2003.
"NO <sub>x</sub> Reduction", Hamon, pp. 1-2, December 8, 2003.
"Selective Catalytic Reduction (SCR)", Hamon, pp. 1-2, printed December 8, 2003.
"Selective Non-Catalytic Reduction (SNCR)", Hamon, pp. 1-3, printed December 8, 2003.
"SCR SNCR Hybrid System", Hamon, pp. 1-2, December 8, 2003.
"Evaluation of the Effect of SCR NOx Control Technology on Mercury Speciation", Feeley, III et al., March 2003, pp. 1-11.

*Examiner	Date Considered
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Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

## **INFORMATION DISCLOSURE**

ATTY DOCKET NO.

**SERIAL NO.**

## CITATION

839-1458

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899-1158

(Use several sheets if necessary)

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**FILED DATE**

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**GROUP**

November 18, 2003

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U.S. PATENT DOCUMENT

3749

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

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## **TRANSLATION**

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)**

	John H. Pavlish et al., "Status Review Of Mercury Control Options For Coal-Fired Power Plants", pp. 89-165, Fuel Processing Technology 82 (2003).
	Thomas D. Brown et al., "Mercury Measurement And Its Control: What We Know, Have Learned, and Need To Further Investigate", Journal of the Air & Waste Management Association, pp. 628-640, Volume 49, June 1999.
	Blair A. Folsom et al, "Combustion Modification – An Economic Alternative for Boiler NO <sub>x</sub> Control", GE Power Systems, GER-4192, pp. 1-8, April 2001.
	R. Sehgal et al., "Intelligent Optimization of Coal Burning to Meet Demanding Power Loads, Emission Requirements, and Cost Objectives", GE Power Systems, GER-4198, pp. 1-14, October 2000.
	The Washington Post, "Limiting Mercury Pollution Is Focus of Hot Debate", pp. A3, March 15, 2004.

\*Examiner

**Date Considered**

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)